

SEC Future Programs

- **Grand Challenges - Rich Vondrak / GSFC**



SEC Grand Challenges

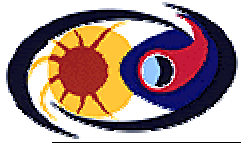
2000 - 2040



Voyages to Nearby Stars

*Expanding Our Home in
the Solar System*

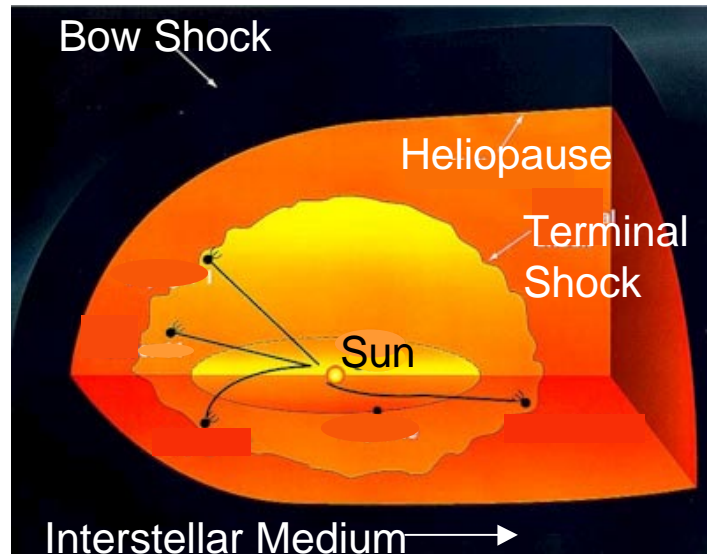




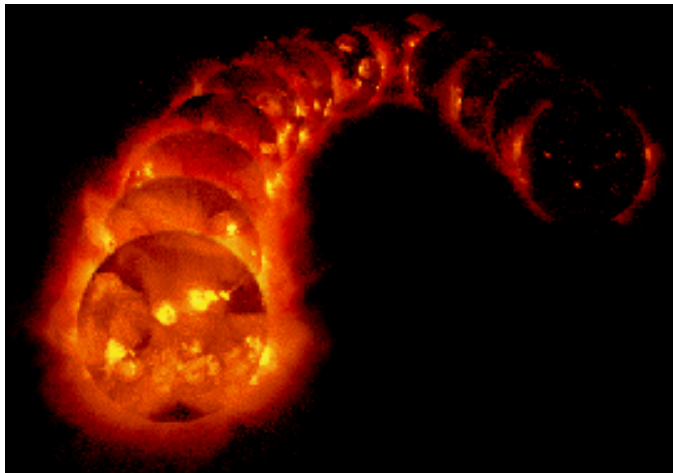
Voyages to Nearby Stars

Destination

- Spacecraft traveling beyond the boundaries of the solar system towards nearby stars

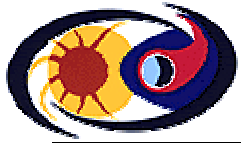


- Observations of the Sun's interior

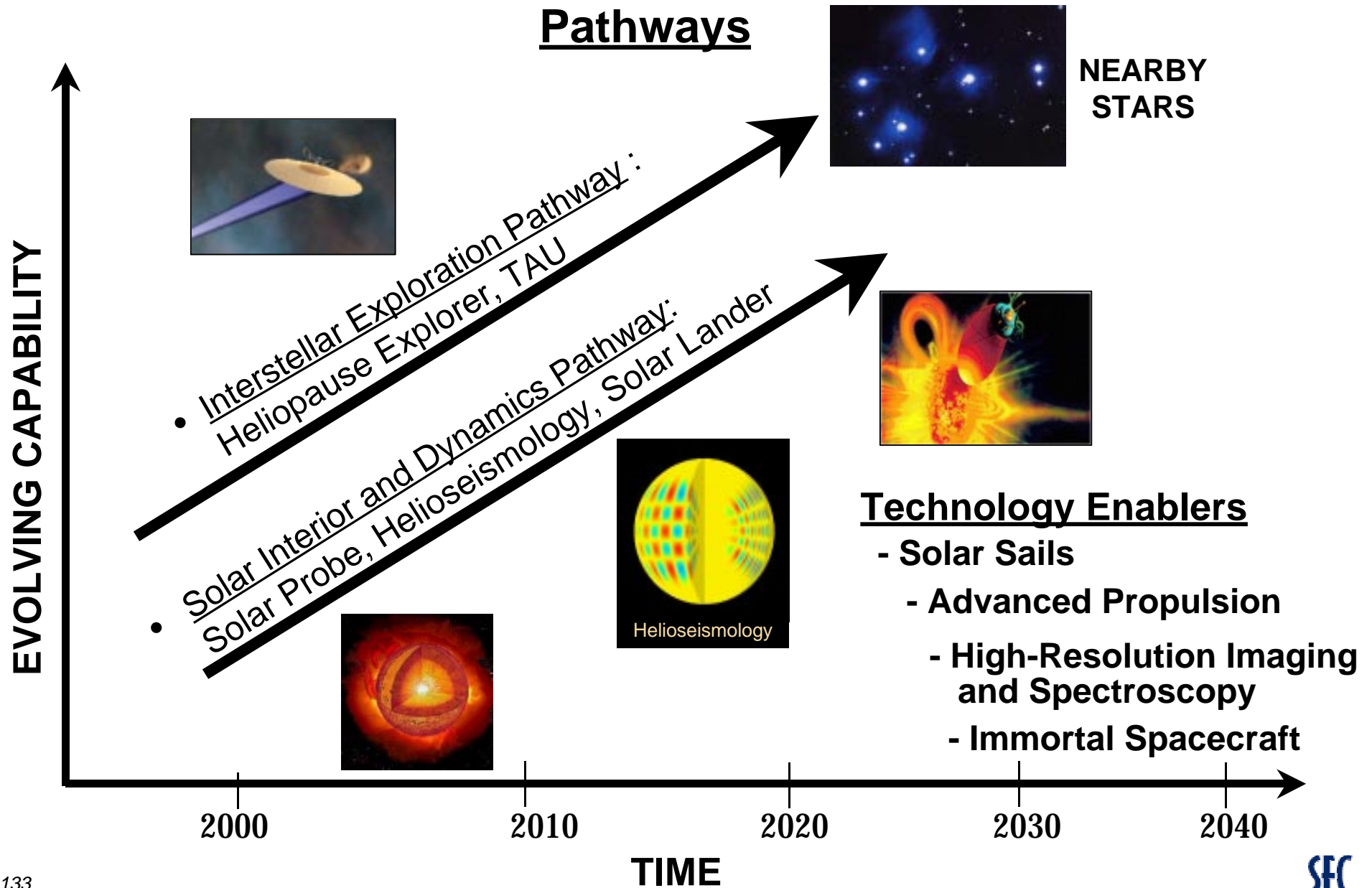


- Understanding of long-term solar and stellar evolution and dynamics





Voyages to Nearby Stars

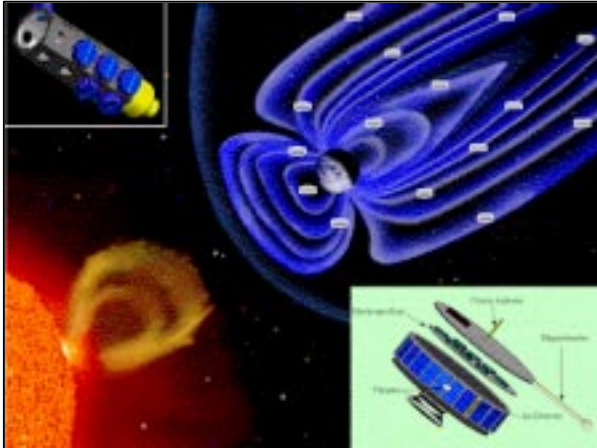




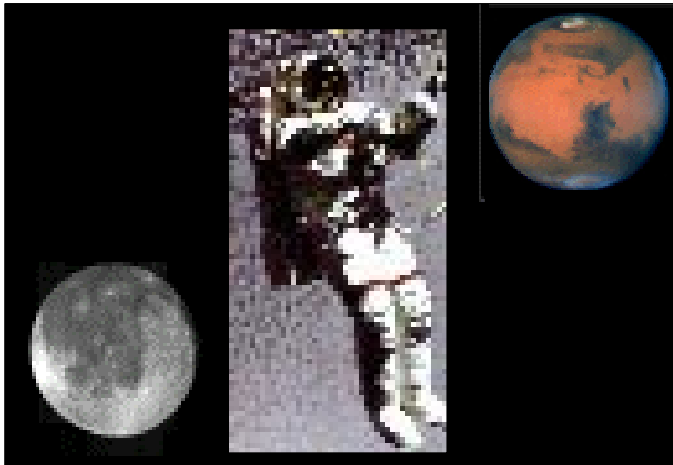
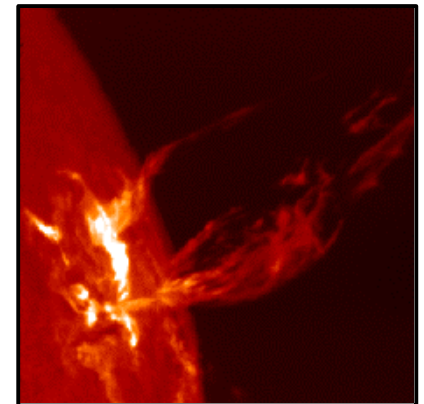
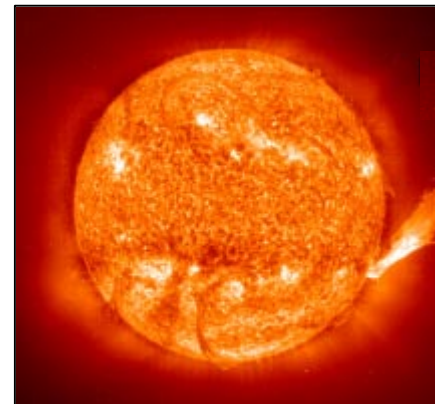
Expanding Our Home in the Solar System

Destination

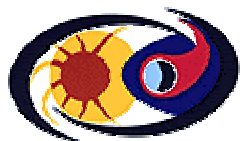
- Understanding of geospace processes to develop a predictive capability for local space weather



- Comprehensive measurements of the global Sun and of the spatial evolution of CME's



- An ability to predict space weather wherever humans may travel (Earth orbit, Moon, L1, Asteroids, Mars, etc.)



Expanding Our Home in the Solar System

Pathway

